		Walc	hand College of E		ngli								
			AY 2023	· · · · ·									
			Course Infor	mation									
Progr	amme		B.Tech. (Open Electiv	ve)									
Class,	Semester		Final Year B. Tech., S	Sem VII									
Cours	e Code		50E415										
Cours	se Name		Management for Engi	ineers									
Desire	ed Requisi	tes:											
	Teaching	Scheme	E	xamination Schem	ne (Marks)								
Lectu	0	3 Hrs/week	MSE	ISE	ESE	Total							
Tutor	-	-	30	20	50	100							
Practi		_				100							
Intera				Credits: 3	}								
				0100000									
			Course Obj	ectives									
	To cove	r key componen	0		ect integration. proj	ect scope							
1	manager	o cover key components of project management including project integration, project scope nanagement, project time and cost management, quality management, human resource onsiderations, communications, risk management, and procurement management.											
2		o stay competitive companies have sought to shorten the construction times of new infrastructure y managing construction development efforts effectively by using different project management pols.											
3	To achie is broke		use a basic project mana ng, planning, monitorin										
		1 5	Course Outcon	mes (CO)									
CO1	specific	tools, models an	A										
CO2	such as t	ime, cost, qualit	in monitoring and contr y, safety and scope.		_								
CO3			actors for successful P ne context of effective R		reasons for failure	e based on							
Modu	ıle		Module Cor	ntents		Hours							
	Basi	cs of Project M	anagement:										
Ι	Areas of Pr Delay	s and Processes roject Managem	for Project Management, Project Management Knowledge The Project Life Cycle, The Project Manager (PM), Phases ent Life Cycle, Project Management Processes, Impact of ompletions, Essentials of Project Management Philosophy,										
п	Proje Intro Study Proje Intro Roles	ect Identification oduction, Project y, Feasibility Stu ect Planning: oduction, Project	n and Selection : t Identification Process, Project Initiation, Pre-Feasibility dies, Project Break-even point t Planning, Need of Project Planning, Project Life Cycle, y and Team Work, Project Planning Process, Work (WBS)										
III	Orga Orga Relat	nisational Stru nisational Struc ionship between	cture and Organisational Issues: Introduction, Concept of										

	PERT and CPM:							
IV	Introduction, Development of Project Network, Time Estimation, Determination of the Critical Path, PERT Model, Measures of variability, CPM Model, Network Cost System	7						
	Project Quality Management and Value Engineering:							
	Introduction, Quality, Quality Concepts, Value Engineering							
	Project Execution and Control:							
	Introduction, Project Execution, Project Control Process, Purpose of Project							
N 7	Execution and Control	0						
V	Introduction to Material Management	8						
	Materials flow system, role of materials management and its linkage with other							
	functional areas, vendor networking, buyer-seller relationships, EOQ model, material codification and classification, concept of logistics and supply chain management,							
	Project Risk and Safety Management:							
	Introduction, Risk, Risk Management, Role of Risk Management in Overall							
	Project Management, Steps in Risk Management, Risk Identification, Risk							
VI	Analysis, Reducing Risks							
	accidents causes and effects, costs of accidents, occupational health problems in							
	construction, Safety and health management system, Health and safety act regulations							
	Text Books							
1	Kumar Neeraj Zha, "Construction Project Management", Pearson India Education, 1 edition,(2011)	st						
2	Saleh Mubarak, "Construction Project Scheduling and Control", Wiley, 2nd edition	(2010)						
3	P K Joy, "Handbook of Construction Management", Macmillan India Limited, 2nd edition(2000)							
	References							
1	Larson, E.W. and Gray, C.F. (2018), Project management the managerial process, S Edition, McGraw-Hill							
2	Chitkara K K, "Construction Project Management : Planning, Scheduling and Contro Tata McGraw - Hill Education, 2nd edition, 2010	olling",						
3								

	CO-PO Mapping with regards to B.Tech Mechanical Programme:															
		Programme Outcomes (PO)														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
CO1					1			1		1			2			
CO2						2				1			3			
CO3					1	2	2			2				3		
The streng	The strength of mapping is to be written as 1,2,3; Where, 1:Low, 2:Medium, 3:High															
Each CO	of the c	course	must r	nap to	at leas	t one P	Ю.									

CO-PO	CO-PO Mapping with regards to B.Tech. Electrical Engineering Programme:																				
	Programme Outcomes (PO)																				
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3						
CO1	1												2								
CO2	1	1	1					1					3								
CO3		1	2			2		1						3							
The streng	gth of r	nappin	ig is to	be wri	tten as	1,2,3;	Where	e, 1:Lo	The strength of mapping is to be written as 1,2,3; Where, 1:Low, 2:Medium, 3:High												

Each CO of the course must map to at least one PO.

Course Contents for B.Tech Programme, Department of Civil Engineering, AY.2023-24

CO-PC	CO-PO Mapping with regards to B.Tech Electronics Engineering Programme:																	
	Programme Outcomes (PO)														PSO			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3			
CO1							1	2					2					
CO2							1	1	1		1		3					
CO3						2	2		1		1			3				
The stren	gth of 1	mappir	ig is to	be wri	tten as	1,2,3;	Where	e, 1:Lo	w, 2:M	edium	, 3:Hig	, jh						

Each CO of the course must map to at least one PO.

CO-PO	CO-PO Mapping with regards to B.Tech Computer Science Engineering Programme:														
	Programme Outcomes (PO)														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
CO1									1				2		
CO2									1	1	1		3		
CO3										2	1			3	

The strength of mapping is to be written as 1,2,3; Where, 1:Low, 2:Medium, 3:High Each CO of the course must map to at least one PO.

CO-PO Mapping with regards to B.Tech Information Technology Engineering	ng
Programme:	

	Programme Outcomes (PO)														PSO		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3		
C01	2				1			1					2				
CO2	2							1					3				
CO3						1	2	2						3			

The strength of mapping is to be written as 1,2,3; Where, 1:Low, 2:Medium, 3:High

Each CO of the course must map to at least one PO.

Assessment

The assessment is based on MSE, ISE and ESE. MSE shall be typically on modules 1 to 3. ISE shall be taken throughout the semester in the form of a teacher's assessment. The mode of assessment can be field visits, assignments etc. and is expected to map at least one higher order PO. ESE shall be on all modules with around 40% weightage on modules 1 to 3 and 60% weightage on modules 4 to 6.

For passing a theory course, Min. 40% marks in (MSE+ISE+ESE) are needed, and Min. 40% marks in ESE are needed. (ESE shall be a separate head of passing)